

Substitut for F rm 1449/PTO

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	10/654,559
Filing Date	September 2, 2003
First Named Inventor:	Robert N. Hasbun
Art Unit	2189
Examiner Name	R. Elmore
Attorney Docket Number	42390P4017C2

Sheet 1 of 5

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures App ar
		Number-Kind Code ² (if known)				
R/E		US-	4,758,944	7/19/1988	Bartley et al.	
R/E		US-	4,849,878	7/18/1989	Roy	
R/E		US-	5,297,148	3/22/1994	Harari et al.	
R/E		US-	5,333,292	7/26/1994	Takemoto et al.	
R/E		US-	5,361,343	11/1/1994	Kosonocky et al.	
R/E		US-	5,404,485	4/4/1995	Ban	
R/E		US-	5,410,707	4/25/1995	Bell	
R/E		US-	5,437,020	7/25/1995	Wells et al.	
R/E		US-	5,473,753	12/5/1995	Wells et al.	
R/E		US-	5,475,753	12/12/1995	Barbara et al.	
R/E		US-	5,479,639	12/26/1995	Ewertz et al.	
R/E		US-	5,519,831	5/21/1996	Holzhammer	
R/E		US-	5,519,843	5/21/1996	Moran et al.	
R/E		US-	5,522,076	5/28/1996	Dewa et al.	
R/E		US-	5,530,673	7/25/1996	Tobita et al.	

FOREIGN PATENT DOCUMENTS

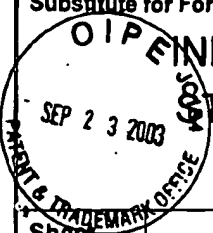
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ^o
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				

Examiner Signature	R. Elmore	Date Considered	4-16-06
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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R/E		US-	5,533,190	7/2/1996	Binford et al.	
R/E		US-	5,535,357	7/9/1996	Moran et al.	
R/E		US-	5,535,369	7/9/1996	Wells et al.	
R/E		US-	5,563,828	10/8/1996	Hasbun et al.	
R/E		US-	5,577,194	11/19/1996	Wells et al.	
R/E		US-	5,579,522	11/26/1996	Christeson et al.	
R/E		US-	5,581,723	12/3/1996	Hasbun et al.	
R/E		US-	5,596,738	1/21/1997	Pope	
R/E		US-	5,602,987	2/11/1997	Harari et al.	
R/E		US-	5,603,056	2/11/1997	Totani	
R/E		US-	5,625,819	4/29/1997	Hoffer, Jr.	
R/E		US-	5,671,388	9/23/1997	Hasbun	
R/E		US-	5,680,570	10/21/1997	Rantala et al.	
R/E		US-	5,715,423	2/3/1998	Levy	
R/E		US-	5,717,886	2/10/1998	Miyauchi	

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Application Number	10/654,559
Filing Date	September 2, 2003
First Named Inventor:	Robert N. Hasbun
Art Unit	2185
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Attorney Docket Number	42390P4017C2

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		Number-Kind Code ² (If known)				
RIC		US-	5,734,874	3/31/1998	Hook et al.	
RIC		US-	5,737,742	4/7/1998	Archiwa et al.	
RIC		US-	5,809,558	9/15/1998	Matthews et al.	
RIC		US-	5,933,838	8/3/1999	Lomet	
RIC		US-	5,937,434	8/10/1999	Hasbun et al.	
RIC		US-	5,974,426	10/26/1999	Lee et al.	
RIC		US-	6,014,755	1/11/2000	Wells et al.	
RIC		US-	6,088,759	7/11/2000	Hasbun et al.	
RIC		US-	6,122,733	9/19/2000	Christeson et al.	
RIC		US-	6,170,066 B1	1/2/2001	See	
RIC		US-	6,182,188 B1	1/30/2001	Hasbun et al.	
RIC		US-	6,243,789 B1	6/5/2001	Hasbun et al.	
RIC		US-	6,311,290 B1	10/30/2001	Hasbun et al.	
RIC		US-	6,412,040 B1	6/25/2002	Hasbun et al.	
		US-				

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
R/E		"Intel and M-Systems Sign FTL Marketing Agreement," News and Events Press Releases, M-Systems, 2pgs. (December 11, 1995)	
R/E		"AMD Flash Card Products Supported by TrueFFS Software," News and Events Press Releases, M-Systems, 2pgs. (March 24, 1997)	
R/E		"M-Systems Announces a NOR Flash Disk Solution Suite," News and Events Press Releases, M-Systems, 3pgs. (August 19, 1996)	
R/E		"Offering up to 72Mbytes in a single-chip 32-pin DIP, Flash DiskOnChip 2000 showcases striking improvements in capacity, performance, and price," New and Events Press Releases, M-Systems, 3 pgs. (March 17, 1997)	
R/E		"Flash PC Card Performance and Capacity Boosted with the Series 2000 NAND-based Architecture," New and Events Press Releases, M-Systems, 2pgs. (January 27, 1997)	
R/E		"FTL, Flash Translation Layer," M-Systems, 2pgs., reprinted (April 11, 1997)	
R/E		"M-Systems Introduces Industry's Fastest SCSI Flash Disk," News and Events Press Releases, M-Systems, 2pgs. (March 14, 1996)	
R/E		"FlashDisk Alternatives, ATA Versus FTL," M-Systems, 8pgs. (May 1996)	
R/E		Maurice J. Bach, "The Design of the Unix Operating System," Prentice Hall, Inc., pgs. 285-305 (1986)	
R/E		"A TrueFFS and FLite Technical Overview of M-Systems' Flash File Systems", M-Systems Technology Brief, 10/96 (pgs. 1-10).	
R/E		Products Guide, M-Systems (reprinted 4/97), (3 pgs.)	

Examiner Signature

R. Elmore

Date

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RE		News & Events: Products, Partners and Corporate Press Release Index, M-Systems, (reprinted 4/11/97), (1 page).	

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